

Features

- Low capacitance
- Balanced TRIGARD®
- Common chamber, 3-element GDT protection
- Switch-Grade Fail-Short device for fire safety
- Reliability is improved by elimination of the air Back-Up-Gap (BUG)

2377-35-G Balanced Gas Tube Station Protector

This series is obsolete and

not recommended for new designs.

Bourns® 2377-35-G protectors are ideal for economical protection of broadband telecom circuits at the subscriber premises against lightning surges, power-cross conditions and ground potential rises. Key features and benefits of this 356-style protector are:

- · Low capacitance Low loss on broadband applications.
- Balanced protection superior protection and improved broadband performance compared to conventional dual 2-element GDT protectors.
- Switch-Grade Fail-Short device provides safer and more reliable thermal protection than solder pellet or burn through types of fail-short mechanisms.

The protector element consists of Bourns' own balanced, heavy-duty rated, 3-electrode Gas Discharge Tube (GDT). The GDT is UL Recognized to the "Gas Tube Seal Test Program", thus eliminating a key issue of conventional GDT protectors with Air-Back-Up protection. Contamination of the BUG is historically the most common failure mode in older protector styles. Proprietary advanced technology in the GDT design helps provide exceptional energy handling and a long life. A patented Switch-Grade Fail-Short mechanism provides an extra measure of safety against thermal overload. The GDT mechanism is housed in a fire-resistant body with binding posts for multiple wiring connections. The IDC version, with environmental sealant, provides additional ease of installation and protection against corrosion.

The 2377-35-G will fit Bourns and most manufacturers' network interface devices and can be used universally for POTS and broadband systems such as ADSL, ADSL2+, VDSL and VDSL2. It exceeds all CAT 5 requirements.

Characteristics

Test Methods per IEEE C62.31, UL 497, RUS PE-80, CSA C22.2, Telcordia GR 974 and 1361.

DC Breakdown		
AC Breakdown	60 Hz	300-500 V
Impulse Breakdown	100 V/µs	625 V
	1000 V/μs	875 V
Insulation Resistance	100 Vdc	> 1 GΩ
Insertion Loss	100 MHz	Exceeds Category 5
Return Loss	100 MHz	Exceeds Category 5
Capacitance Tip or Ring to Ground - Binding Post	1 MHz	3.5 pF typical
Capacitance Tip or Ring to Ground - IDC	1 MHz	7.5 pF typical
Impulse Reset 1	52 V, 260 mA	< 10 ms
	135 V, 200 mA	< 10 ms
	150 V, 200 mA	< 150 ms
Impulse Life Characteristics 3		
(Tip and Ring to Ground, Simultaneously)	100 Å, 10/1000 µs	> 300 operations
	300 A, 10/1000 μs	
	500 A, 10/1000 μs	> 400 operations ²
	2,000 A, 10/250 μs	
	5,000 A, 20/100 μs	> 2 operations
	20,000 A, 8/20 μs	> 1 operation
AC Life Characteristics		
(Tip and Ring to Ground, Simultaneously)	1 A rms, 1 second, 600 ft. cable	> 60 operations
	1 A rms, 1 second, 1 mile cable	> 60 operations
	10 A rms, 1 second	> 5 operations
	65 A rms, 11 cycles	> 1 operation ²
	120 A rms, 0.1 second	1 operation
High Current Capability and Thermal Operation		> 30 Å rms, 15 min.
(Tip and Ring to Ground, Simultaneously)		
Storage and Operating Temperature		55 to +85 °C
Moisture Sensitivity Level		
ESD Classification (HBM)		
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Notes:

- ¹ Network applied.
- ² Per RUS PE-80.
- ³ Exceeds Telcordia (Bellcore) GR 1361.

Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.



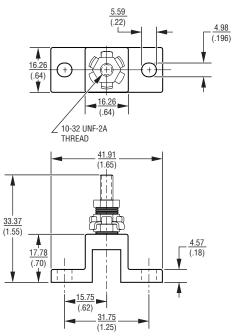
Features (Continued)

- Meets test requirements of Telcordia GR 974, GR1361, SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1843
- c(1) us UL Listed per UL 497 (File: E53117)
- Rugged sealed construction
- Binding post or optional Insulation Displacement Connectors (IDCs)

2377-35-G Balanced Gas Tube Station Protector

Product Dimensions 2377-35-G 30.6 (2.25)(1.20)DIMENSIONS: MILLIMETERS (INCHES) 37.08 (1.46)c(UL) (UL) 16.26 (.64) 58.00 2377-35-G-IDC 26.9 (1.06)19.05 BOURN (0.75)13.50 (0.53) 2377-35-G-IDC GDT 356G • 30.60 (1.20)

2372-02 Ground Mounting Stud (Order Separately)



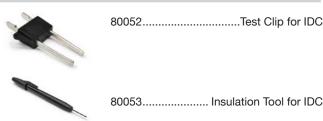
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Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

How To Order

2377-35-G Binding Post Connectors 2377-35-G-IDC Insulation Displacement Connectors

Related Products



BOURNS[®]

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